

S/N 10/598,779

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	BREDDAM et al.	Examiner:	Unknown
Serial No.:	10/598,779	Group Art Unit:	Unknown
Filed:	11 September 2006	Docket No.:	12845.0009USWO
Title:	BARLEY FOR PRODUCTION OF FLAVOR-STABLE BEVERAGE		

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted within three months of the filing date of the above-identified application, which is not an application under 37 C.F.R. § 1.53(d). Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(d), a copy of each document or other information listed on the enclosed Form 1449 is not provided because it was previously cited by or submitted to the U.S. Patent and Trademark Office in parent application, U.S. Serial No. 10/800,200 filed on 11 March 2004.

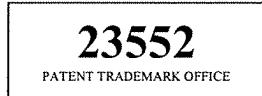
No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account No. 13-2725.

Respectfully submitted,



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Dated: 21 May 2007

By Denise M. Kettelberger
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DMK/cjc

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)			Docket Number: 12845.0009USWO	Application Number: 10/598,779
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,683,195	07/28/1987	Mullis et al.			
	4,800,159	01/24/1989	Mullis et al.			
	5,283,184	02/01/1994	Jorgensen et al.			
	5,942,661	08/24/1999	Keller			
	6,008,034	12/28/1999	Häusler et al.			
	6,150,145	11/21/2000	Häusler et al.			
	6,274,358	08/14/2001	Holtz et al.			
	6,355,862 B1	03/12/2002	Handa et al.			
	2003/0074693 A1	04/17/2003	Cahoon et al.			
	US 2003/016754	09/04/2003	Bhaven et al.			
	US 6,660,915	12/2003	Douma et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 02/053721 A1	07/11/2002	WIPO				
	EP 1 609 866	12/28/2005	Europe				
	WO 2004/085652	10/07/2004	WIPO				
	WO 02/053720	07/11/2002	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Alonso, J.M. et al., "Genome-wide insertional mutagenesis of <i>Arabidopsis thaliana</i> ," <i>Science</i> , 301:653-657 (1 Aug. 2003)
		American Association of Cereal Chemists, "Approved methods of the American Association of Cereal Chemists," ISBN, 0-913250-86-4, 23 pages (1995)
		American Society of Brewing Chemists, "Methods of analysis of the American Society of Brewing Chemists," ISBN, 1-881696-01-4, 10 pages (1992)
		Anthon, G.E. and Barrett, D.M., "Colorimetric method for the determination of lipoxygenase activity," <i>J. Agric. Food Chem.</i> , 49:32-37 (2001)
		Ashrafi, K. et al., "Genome-wide RNAi analysis of <i>Caenorhabditis elegans</i> fat regulatory genes," <i>Nature</i> , 421:268-272 (16 Jan. 2003)

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	Auld, D.L. <i>et al.</i> , "Rapeseed mutants with reduced levels of polyunsaturated fatty acids and increased levels of oleic acid," <i>Crop Sci.</i> , 32:657-662 (1992)
	Axelrod, B. <i>et al.</i> , "Lipoxygenase from soybeans," <i>Methods Enzymol.</i> , 71:441-451 (1981)
	Bargmann, C.I., "High-throughput reverse genetics: RNAi screens in <i>Caenorhabditis elegans</i> ," <i>Genome Biol. 2: Reviews</i> , 1005.1-1005.3 (31 Jan. 2001)
	Bell, E. <i>et al.</i> , "A chloroplast lipoxygenase is required for wound-induced jasmonic acid accumulation in <i>Arabidopsis</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 92:8675-8679 (Sept. 1995)
	Bell, E. and Mullet, J.E., "Lipoxygenase gene expression is modulated in plants by water deficit, wounding, and methyl jasmonate," <i>Mol. Gen. Genet.</i> , 230:456-462 (1991)
	Bell, E. and Mullet, J.E., "Characterization of an <i>Arabidopsis</i> lipoxygenase gene responsive to methyl jasmonate and wounding," <i>Plant Physiol.</i> , 103:1133-1137 (1993)
	"Bios International," <i>Data, Bios Intern.</i> , 4:38-42 (2001)
	Blée, E. and Joyard, J., "Envelope membranes from spinach chloroplasts are a site of metabolism of fatty acid hydroperoxides," <i>Plant Physiol.</i> , 110:445-454 (1996)
	Bohland, C. <i>et al.</i> , "Differential induction of lipoxygenase isoforms in wheat upon treatment with rust fungus elicitor, chitin oligosaccharides, chitosan, and methyl jasmonate," <i>Plant Physiol.</i> , 114:679-685 (1997)
	Burow, G.B. <i>et al.</i> , "A peanut seed lipoxygenase responsive to <i>Aspergillus</i> colonization," <i>Plant Mol. Biol.</i> , 42:689-701 (2000)
	Casey, R., "Lipoxygenases in the breadmaking process," In: "First European Symposium on Enzymes and Grain Processing." Angelino, S.A.G.F., van Hamer, R.J., Hartingsveldt, W., Heidekamp, F., van der Lugt, J.P., eds., pp. 188-194. TNO Nutrition and Food Research Institute, ISBN, 90-75202-04-0 (1997)
	Christensen, A.H. <i>et al.</i> , "Maize polyubiquitin genes: Structure, thermal perturbation of expression and transcript splicing, and promoter activity following transfer to protoplasts by electroporation," <i>Plant Mol. Biol.</i> , 18:675-689 (1992)
	Colbert, T. <i>et al.</i> , "High-throughput screening for induced point mutations," <i>Plant Physiol.</i> , 126:480-484 (June 2001)
	Cornish-Bowden, A., "Nomenclature for incompletely specified bases in nucleic acid sequences: Recommendations 1984," <i>Nucleic Acids Res.</i> , 13:3021-3030 (1985)
	Croft, K.P.C. <i>et al.</i> , "Volatile products of the lipoxygenase pathway evolved from <i>Phaseolus vulgaris</i> (L.) leaves inoculated with <i>Pseudomonas syringae</i> pv <i>phaseolicola</i> ," <i>Plant Physiol.</i> , 101:13-24 (1993)
	Davies, C.S. and Nielsen, N.C., "Genetic analysis of null-allele for lipoxygenase-2 in soybean," <i>Crop Sci.</i> , 26:460-463 (May-June 1986)
	Dougherty, W.G. and Parks, T.D., "Transgenes and gene suppression: Telling us something new?" <i>Curr. Opin. Cell Biol.</i> , 7:399-405 (1995)
	Drost, B.W. <i>et al.</i> , "Role of individual compounds in beer staling," <i>Tech. Q. MBAA</i> , 11:127-134 (1974)
	Drost, B.W. <i>et al.</i> , "Flavor stability," <i>J. Am. Soc. Brew. Chem.</i> , 48:124-131 (1990)
	"EBC Analysis Committee, European Brewery Convention, "Analytica – EBC", ISBN, 3-418-00759-7, 13 pages (1998)
	Feussner, I. and Wasternack, C., "The lipoxygenase pathway," <i>Annu. Rev. Plant Biol.</i> , 53:275-297 (2002)
	Forster, C. <i>et al.</i> , "Molecular analysis of a null mutant for pea (<i>Pisum sativum</i> L.) seed lipoxygenase-2," <i>Plant Mol. Biol.</i> , 39:1209-1220 (1999)
	Gardner, H.W. and Grove, M.J., "Method to produce 9(S)-hydroperoxides of linoleic and linolenic acids by maize lipoxygenase," <i>Lipids</i> , 36:529-533 (2001)
	Glaeber, G. <i>et al.</i> , "Functional profiling of the <i>Saccharomyces cerevisiae</i> genome," <i>Nature</i> , 418:387-391 (25 July 2002)

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	Gönczy, P. <i>et al.</i> , "Functional genomic analysis of cell division in <i>C. elegans</i> using RNAi of genes on chromosome III," <i>Nature</i> , 408:331-336 (16 Nov. 2000)
	Graef, G.L. <i>et al.</i> , "Fatty acid development in a soybean mutant with high stearic acid," <i>J. Am. Oil Chem. Soc.</i> , 62:773-775 (April 1985)
	Griffiths, A. <i>et al.</i> , "Fruit-specific lipoxygenase suppression in antisense-transgenic tomatoes," <i>Postharvest Biol. Technol.</i> , 17:163-173 (1999)
	Gronqvist, A. <i>et al.</i> , "Carbonyl compounds during beer production and in beer," <i>Proceedings of the 24th EBC Congress, Oslo</i> , pp. 421-428 (1993)
	Grosch, W. and Schwartz, J.M., "Linoleic and linolenic acid as precursors of the cucumber flavor," <i>Lipids</i> , 6:351-352 (1971)
	Hamberg, M., "Trihydroxyoctadecenoic acids in beer: Qualitative and quantitative analysis," <i>J. Agric. Food Chem.</i> , 39:1568-1572 (1991)
	Hannon, G.J., "RNA interference," <i>Nature</i> , 418:244-251 (11 July 2002)
	Hildebrand, D.F. and Hymowitz, T., "Inheritance of lipoxygenase-1 activity in soybean seeds," <i>Crop Sci.</i> , 22:851-853 (July-August 1982)
	Holtman, W.L. <i>et al.</i> , "Differential expression of lipoxygenase isoenzymes in embryos of germinating barley," <i>Plant Physiol.</i> , 111:569-576 (1996)
	Hoseney, R.C., "An overview of malting and brewing," <i>Cereal Foods World</i> , 39:675-679 (Sept. 1994)
	Husson, F. and Belin, J.M., "Purification of hydroperoxide lyase from green bell pepper (<i>Capsicum annuum</i> L.) fruits for the generation of C6-aldehydes in vitro," <i>J. Agric. Food Chem.</i> , 50:1991-1995 (26 Feb. 2002)
	The Analysis Committee of The Institute of Brewing, "Institute of Brewing. Methods of analysis," ISBN, 0-900489-10-3, 14 pages (1997)
	IUPAC-IUB Joint Commission on Biochemical Nomenclature, "Nomenclature and symbolism for amino acids and peptides. Recommendations 1983," <i>Biochem. J.</i> , 219:345-373 (1984)
	Isshiki, M. <i>et al.</i> , "Nonsense-mediated decay of mutant waxy mRNA in rice," <i>Plant Physiol.</i> , 125:1388-1395 (March 2001)
	Jalloul, A. <i>et al.</i> , "Lipid peroxidation in cotton: <i>Xanthomonas</i> interactions and the role of lipoxygenases during the hypersensitive reaction," <i>Plant J.</i> , 32:1-12 (2002)
	Jamieson, A.M. and Van Gheluwe, J.E.A., "Identification of a compound responsible for cardboard flavor in beer," <i>Proc. Am. Soc. Brew. Chem.</i> , 29:192-197 (1970)
	Jende-Strid, B., "Gene-enzyme relations in the pathway of flavonoid biosynthesis in barley," <i>Theor. Appl. Genet.</i> , 81:668-674 (1991)
	Jende-Strid, B., "Genetic control of flavonoid biosynthesis in barley," <i>Hereditas</i> , 119:187-204 (1993)
	Jensen, L.G. <i>et al.</i> , "Transgenic barley expressing a protein-engineered, thermostable (1,3-1,4)- β -glucanase during germination," <i>Proc. Natl. Acad. Sci. USA</i> 93, 3487-3491 (April 1996)
	Kamath, R.S. <i>et al.</i> , "Effectiveness of specific RNA-mediated interference through ingested double-stranded RNA in <i>Caenorhabditis elegans</i> ," <i>Genome Biol. 2: Research</i> , 0002.1-0002.10 (20 Dec. 2000)
	Kamath, R.S. <i>et al.</i> , "Systematic functional analysis of the <i>Caenorhabditis elegans</i> genome using RNAi," <i>Nature</i> , 421:231-237 (Jan. 2003)
	Kitamura <i>et al.</i> , "Genetic analysis of a null-allele for lipoxygenase-3 in soybean seeds," <i>Crop Sci.</i> , 23:924-927 (October 1983)
	Kleinhofs, A. <i>et al.</i> , "Induction and selection of specific gene mutations in <i>Hordeum</i> and <i>Pisum</i> ," <i>Mut. Res.</i> , 51:29-35 (1978)
	Kolomiets, M.V. <i>et al.</i> , "Lipoxygenase is involved in the control of potato tuber development," <i>Plant Cell</i> , 13:613-626 (March 2001)
	Kuroda <i>et al.</i> , "Characterization of factors involved in the production of 2(<i>E</i>)-nonenal during mashing," <i>Biosci.</i>

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		<i>Biotechnol. Biochem.</i> , 67:691-697 (2003)
		Kusaba, M. et al., "Low glutelin content1: A dominant mutation that suppresses the <i>Glutelin</i> multigene family via RNA silencing in rice," <i>Plant Cell</i> , 15:1455-1467 (June 2003)
		Laemmli, U.K., "Cleavage of structural proteins during the assembly of the head of bacteriophage T4," <i>Nature</i> , 227:680-685 (15 Aug. 1970)
		León, J. et al., "Lipoxygenase H1 gene silencing reveals a specific role in supplying fatty acid hydroperoxides for aliphatic aldehyde production," <i>J. Biol. Chem.</i> , 277:416-423 (4 Jan. 2002)
		Lermusieau, G. et al., "Nonoxidative mechanism for development of <i>trans</i> -2-nonenal in beer," <i>J. Am. Soc. Brew. Chem.</i> , 57(1):29-33 (1999)
		Liégeois, C. et al., "Release of deuterated (<i>E</i>)-2-nonenal during beer aging from labeled precursors synthesized before boiling," <i>J. Agric. Food Chem.</i> , 50:7634-7638 (2002) (web: 19 Nov. 2002)
		Maquat, L.E. and Carmichael, G.G., "Quality control of mRNA function," <i>Cell</i> , 104:173-176 (26 Jan. 2001)
		Matsui, K. et al., "Effects of overexpression of fatty acid 9-hydroperoxide lyase in tomatoes (<i>Lycopersicon esculentum</i> Mill.)," <i>J. Agric. Food Chem.</i> , 49:5418-5424 (2001) (web: 27 Oct. 2001)
		May, C. et al., "The N-terminal β -barrel structure of lipid body lipoxygenase mediates its binding to liposomes and lipid bodies," <i>Eur. J. Biochem.</i> , 267:1100-1109 (2000)
		McElroy, D. and Jacobsen, J., "What's brewing in barley biotechnology?" <i>Bio/Technology</i> , 13:245-249 (March 1995)
		Meilgaard, M.C., "Flavor chemistry of beer: Part II: Flavor and threshold of 239 aroma volatiles," <i>Tech. Q. MBAA</i> , 12:151-168 (1975)
		Melan, M.A. et al., "An <i>Arabidopsis thaliana</i> lipoxygenase gene can be induced by pathogens, abscisic acid, and methyl jasmonate," <i>Plant Physiol.</i> , 101:441-450 (1993)
		Mendell, J.T. and Dietz, H.C., "When the message goes awry: Disease-producing mutations that influence mRNA content and performance," <i>Cell</i> , 107:411-414 (16 Nov. 2001)
		Narziss, L., "Centenary Review: Technological factors of flavour stability," <i>J. Inst. Brew.</i> , 92:346-353 (July-August 1986)
		Noël, S. and Collin, S., "Trans-2-nonenal degradation products during mashing," <i>Eur. Brew. Conv. Proc. Congr. 25th</i> , Brussels: 483-490 (1995)
		Noordermeer, M.A. et al., "Fatty acid hydroperoxide lyase: A plant cytochrome P450 enzyme involved in wound healing and pest resistance," <i>ChemBioChem</i> , 2:494-504 (2001)
		Noordermeer, M.A. et al., "Development of a biocatalytic process for the production of C6-aldehydes from vegetable oils by soybean lipoxygenase and recombinant hydroperoxide lyase," <i>J. Agric. Food Chem.</i> , 50:4270-4274 (2002) (web: 21 June 2002)
		Norden, A.J. et al., "Variability in oil quality among peanut genotypes in the Florida breeding program," <i>Peanut Sci.</i> , 14:7-11 (1987)
		Nyborg, M. et al., "Investigations of the protective mechanism of sulfite against beer staling and formation of adducts with <i>trans</i> -2-nonenal," <i>J. Am. Soc. Brew. Chem.</i> , 57:24-28 (1999)
		Ohtsu, K. et al., "Flavor stability of packaged beer in relation to the oxidation of wort," <i>Brew. Dig.</i> , 61(6):18-23 (June 1986)
		Olsen, O. et al., "Sodium azide mutagenesis: Preferential generation of A-T \rightarrow G-C transitions in the barley <i>Ant18</i> gene," <i>Proc. Natl. Acad. Sci. USA</i> , 90:8043-8047 (Sept. 1993)
		Osorio, J. et al., "Mutant sunflowers with high concentration of saturated fatty acids in the oil," <i>Crop Sci.</i> , 35:739-742 (May-June 1995)
		Parinov, S. and Sundaresan, V., "Functional genomics in <i>Arabidopsis</i> : Large-scale insertional mutagenesis complements the genome sequencing project," <i>Curr. Opin. Biotechnol.</i> , 11:157-161 (2000)
		Phillips, D.R. and Galliard, T., "Flavour biogenesis, partial purification and properties of a fatty acid hydroperoxide cleaving enzyme from fruits of cucumber," <i>Phytochemistry</i> , 17:355-358 (1978)

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	Ramezanzadeh, F.M. et al., "Prevention of oxidative rancidity in rice bran during storage," <i>J. Agric. Food Chem.</i> , 47:2997-3000 (1999) (web: 15 July 1999)
	Rancé, I. et al., "The incompatible interaction between <i>Phytophthora parasitica</i> var. <i>nicotianae</i> race 0 and tobacco is suppressed in transgenic plants expressing antisense lipoxygenase sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 95:6554-6559 (May 1998)
	Rasmussen, S.K. and Hatzack, F., "Identification of two low-phytate barley (<i>Hordeum vulgare</i> L.) grain mutants by TLC and genetic analysis," <i>Hereditas</i> , 129:107-112 (1998)
	Rogers, K.R. et al., "Lipid peroxidation is a consequence of elicitor activity," <i>Plant Physiol.</i> , 86:547-553 (1988)
	Rouster, J. et al., "Identification of a methyl jasmonate-responsive region in the promoter of a lipoxygenase 1 gene expressed in barley grain," <i>Plant J.</i> , 11:513-523 (1997)
	Royo, J. et al., "Antisense-mediated depletion of a potato lipoxygenase reduces wound induction of proteinase inhibitors and increases weight gain of insect pests," <i>Proc. Natl. Acad. Sci. USA</i> , 96:1146-1151 (Feb. 1999)
	Rustérucci, C. et al., "Involvement of lipoxygenase-dependent production of fatty acid hydroperoxides in the development of the hypersensitive cell death induced by cryptogein on tobacco leaves," <i>J. Biol. Chem.</i> , 274:36446-36455 (17 Dec. 1999)
	Sambrook, J. et al., "Molecular Cloning: A Laboratory Manual, 2nd Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York," ISBN, 0-87969-309-6, 5 pages (1989)
	Sambrook, J. and Russell, D.W., "Molecular Cloning. A Laboratory Manual, 3rd Ed.," Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York," ISBN, 0-87969-577-3, 11 pages (2001)
	Saravitz, D.M. and Siedow, J.N., "The differential expression of wound-inducible lipoxygenase genes in soybean leaves," <i>Plant Physiol.</i> , 110:287-299 (1996)
	Schmitt, N.F. and Van Mechelen, J.R., "Expression of lipoxygenase isoenzymes in developing barley grains," <i>Plant Sci.</i> , 128:141-150 (1997)
	Soldatov, K.I., "Chemical mutagenesis in sunflower breeding," In: <i>Proceedings of the VIIth International Sunflower Conference (27 June-3 July, 1976) Krasnodar, USSR</i> , - International Sunflower Association, Toowoomba, Australia, Vol. 1, pp 352-357 (1976)
	Srivastava, S. et al., "Structural and kinetic determinants of aldehyde reduction by aldose reductase," <i>Biochemistry</i> , 38:42-54 (1999) (web: 12/10/1998)
	Start, W.G. et al., "Two soybean seed lipoxygenase nulls accumulate reduced levels of lipoxygenase transcripts," <i>Plant Mol. Biol.</i> , 7:11-23 (1986)
	Tatulian, S.A. et al., "Uncovering a calcium-regulated membrane-binding mechanism for soybean lipoxygenase-1," <i>Biochemistry</i> , 37:15481-15490 (1998) (web: 10/16/1998)
	Tijet, N. et al., "Biogenesis of volatile aldehydes from fatty acid hydroperoxides: Molecular cloning of a hydroperoxide lyase (CYP74C) with specificity for both the 9- and 13-hydroperoxides of linoleic and linolenic acids," <i>Arch. Biochem. Biophys.</i> , 386:281-289 (15 Feb. 2001)
	Tingay, S. et al., "Agrobacterium tumefaciens-mediated barley transformation," <i>Plant J.</i> , 11:1369-1376 (1997)
	Towbin, H. et al., "Electrophoretic transfer of proteins from polyacrylamide gels to nitrocellulose sheets: Procedure and some applications," <i>Proc. Natl. Acad. Sci. USA</i> , 76:4350-4354 (Sept. 1979)
	Turner, J.G. et al., "The jasmonate signal pathway," <i>Plant Cell</i> , 14:S153-S164 (2002)
	Vancanneyt, G. et al., "Hydroperoxide lyase depletion in transgenic potato plants leads to an increase in aphid performance," <i>Proc. Natl. Acad. Sci. USA</i> , 98:8139-8144 (3 July 2001)
	van Mechelen, J.R. et al., "Primary structure of a lipoxygenase from barley grain as deduced from its cDNA sequence," <i>Bioch. Biophys. Acta</i> , 1254:221-225 (1995)
	van Mechelen, J.R. et al., "Molecular characterization of two lipoxygenases from barley," <i>Plant Mol. Biol.</i> , 39:1283-1298 (1999)

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		von Wettstein, D. <i>et al.</i> , "Biochemical mutant in barley renders chemical stabilization of beer superfluous," <i>Carlsberg Res. Commun.</i> , 42:341-351 (1977)
		von Wettstein, D. <i>et al.</i> , "Proanthocyanidin-free barley for brewing: Progress in breeding for high yield and research tool in polyphenol chemistry," <i>Tech. Q. MBAA</i> , 22:41-52 (1985)
		Wan, Y. and Lemaux, P.G., "Generation of large numbers of independently transformed fertile barley plants," <i>Plant Physiol.</i> , 104:37-48 (1994)
		Wang, J. <i>et al.</i> , "Alternatively spliced TCR mRNA induced by disruption of reading frame," <i>Science</i> , 297:108-110 (5 July 2002)
		Wang, M.-B. <i>et al.</i> , "Agrobacterium tumefaciens-mediated transformation of an elite Australian barley cultivar with virus resistance and reporter genes," <i>Aust. J. Plant Physiol.</i> , 28:149-156 (2001)
		Wang, W.H. <i>et al.</i> , "Molecular basis of a null mutation in soybean lipoxygenase 2: Substitution of glutamine for an iron-ligand histidine," <i>Proc. Natl. Acad. Sci. USA</i> , 91:5828-5832 (June 1994)
		Wang, W.-H. <i>et al.</i> , "Two single-base substitutions involved in altering in a paired-box of AAAATAC in the promoter region of soybean lipoxygenase L-3 gene impair the promoter function in tobacco cells," <i>Plant Sci.</i> , 109:67-73 (1995)
		Weber, H. <i>et al.</i> , "Divinyl ether fatty acid synthesis in late blight-diseased potato leaves," <i>Plant Cell</i> , 11:485-493 (March 1999)
		Wesley, S.V. <i>et al.</i> , "Construct design for efficient, effective and high-throughput gene silencing in plants," <i>Plant J.</i> , 27:581-590 (2001)
		White, J. <i>et al.</i> , "A cassette containing the <i>bar</i> gene of <i>Streptomyces hygroscopicus</i> : A selectable marker for plant transformation," <i>Nucleic Acids Res.</i> , 18:1062 (1990)
		Zhang, Y. <i>et al.</i> , "Expression of antisense SnRK1 protein kinase sequence causes abnormal pollen development and male sterility in transgenic barley," <i>Plant J.</i> , 28:431-441 (2001)
		Drost et al., "Flavor Stability." <i>ASBC Journal</i> , 1990. Vol. 48(4), pp.124-131.
		Kuroda et al, "Characterization of Factors That Transform Linoleic Acid into Di- and Trihydroxyoctadecenoic Acids in Mash." <i>Journal of Bioscience and Bioengineering</i> , 2002. Vol. 93(1) pp. 73-77.
		Kuroda et al., "Enzymes that Transform Linoleic Acid into Di- and Trihydroxyoctadecenoic Acids in Malt." <i>BAA TQ</i> , 2003. Vol. 40(1) pp.11-16.
		Kobayashi et al., "Behavior of Mono-, Di- and Trihydroxyoctadecenoic Acids during Mashing and Methods of Controlling Their Production." <i>Journal of Bioscience and Bioengineering</i> , 2000. Vol. 90(1) pp. 69-73.
		Rutgersson et al., "Optimization of Temperature, Time and Lactic Acid Concentration to Inactivate Lipoxygenase and Lipase and Preserve Phytase Activity in Barley (cv. Blenheim) During Soaking." <i>Cereal Chemistry</i> , 1997. Vol. 74(6) pp. 727-732.
		Hirota et al., 20-26 June 2004, <i>9th International Barley Genetics Symposium</i> , Brno, Czech Republic, pp. 69-73. "Genetic Variation of Barley Seed Lipoxygenase-1: Null Mutants."
		Narzib et al. 1990, Brauwelt International. pp. 126-134. "Latest Findings on beer foam."

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